10/558893

## Rec'd PCT/PTO 22 JUN 2006

### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P06127WO			FOR FURTHER ACTION			See Form PCT/IPEA/416			
International application No.					International filing	date (day/month/)	Priority date (day/month/year)		
PCT/EP2004/004442				42	27.04.20	04		30.05.2003	
Internati	onal Pa	tent Classi	ification	(IPC) or nati	lional classification ar	nd IPC			
Applica SIE	_	S AKT	IENG	ESELL	SCHAFT				
1.					minary examination ne applicant according		d by this l	International Preliminary Examining Authority	
2.	This R	EPORT c	onsists o	of a total of	6	sheets	s, includinį	g this cover sheet.	
3.	This re	eport is als	so accom	npanied by A	NNEXES, comprisin	ıg:			
	. Г	7 (500)	t to the o	mulicant and	to the International	- Puregu) a total of		sheets as follows:	
	а. L	(seni						sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								r of electronic carrier(s))	
	٠					(			
related thereto, in computer readable form only, as inc Section 802 of the Administrative Instructions).								_ , containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see	
4.	This re			·	ing to the following it	tems:			
	$\boxtimes$	Box No.	. I	Basis of the	report				
	Ш	Box No.	. II	Priority					
		Box No.	III	Non-establi	shment of opinion w	ith regard to nove	lty, invent	ive step and industrial applicability	
		Box No.	. IV	Lack of uni	ty of invention				
	$\boxtimes$	Box No.	. <b>v</b>		tatement under Articl d explanations suppo			lty, inventive step or industrial applicability;	
		Box No.	. VI	Certain doc	uments cited				
İ	$\boxtimes$	Box No.	VII	Certain def	ects in the internation	nal application			
		Box No.	VIII	Certain obs	ervations on the inter	national applicati	ion		
Date of submission of the demand						Date of comple	etion of th	is report	
_								•	
Name and mailing address of the IPEA/EP						Authorized officer			
Facsimile No.						Telephone No.			

Translation

International application No.

PCT/EP2004/004442

Вох	No. I	Basis of the report		
1.		h regard to the language, this report is based on the internationated under this item.	ional application in the language in which i	t was filed, unless otherwise
		This report is based on translations from the original languable which is the language of a translation furnished for the pure translations are translations.		,
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12	.4)	
		international preliminary examination (Rule 55.2 an	·	
2.	recei	h regard to the elements of the international application, the civing Office in response to an invitation under Article 14 of report):		
		the international application as originally filed/furnished		
	M	the description:		
		pages <u>1-19</u>		as originally filed/furnished
		pages*	received by this Authority on	
		pages*	received by this Authority on	
	$\boxtimes$	the claims:		
		nos. 1-9		as originally filed/furnished
		nos.*	as amended (together with a	nny statement) under Article 19
		nos.*	received by this Authority on	
		nos.*	received by this Authority on	
	$\boxtimes$	the drawings:		
	_	sheets 1/5-5/5		as originally filed/furnished
		sheets*		_
		sheets*		
	П	a sequence listing and/or any related table(s) - see Supple		
			inemal box relating to sequence Library.	
3.	Ш	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as		
		the description, pages		<u> </u>
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		<u> </u>
		any table(s) related to sequence listing (specify):		
Ŀ	lf ite	em 4 applies, some or all of those sheets may be marked "sı	iperseded."	

PCT/EP2004/004442

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement				_			
	Novelty (1	٧)	Claims		YES			
			Claims	1-9	NO			
	Inventive step (IS)		Claims		YES			
			Claims	1-9	NO			
	Industrial	applicability (IA)	Claims	1-9	YES			
			Claims		NO			

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: GB-A-2 373 319 (ROLLS ROYCE PLC)
18 September 2002 (2002-09-18)

D2: US-A-3 844 116 (MATTO L)
29 October 1974 (1974-10-29).

1. Document D1 discloses (see figure 8, page 10, lines 8-26; the references in parentheses are to said document) a combustion chamber (30), the inner face of the wall (38) of said combustion chamber being provided with a lining formed of a number of heat-shield elements (40), each of said elements in conjunction with the wall of the combustion chamber forming an inner volume to which coolant can be applied, a flow element (66, 42) being introduced into said inner volume.

With said flow elements (66)(42), the rate of coolant flow upstream of the flow element will increase as a result of the reduction in flow cross section and, thus, the efficiency of the convected cooling will also increase.

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PCT/EP2004/004442

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Independently thereof, document D2 (see figure 3, column 4, lines 4-64) discloses a combustion chamber (16), the inner face of the wall (62) of said combustion chamber being provided with a lining formed of a number of heat-shield elements (64) that, in conjunction with the wall of the combustion chamber, form an inner volume to which coolant can be applied, a flow element (66, 42) being introduced into said inner volume.

These combustion chambers have all the features of the subject matter of claim 1. Said claim therefore fails to satisfy the requirement of novelty (PCT Article 33(2)).

Documents D1 and D2 also disclose a gas turbine with a combustion chamber comprising the features according to the subject matter of claim 1.

Thus, the subject matter of claim 9 fails to satisfy the requirement of novelty (PCT Article 33(2)).

- The technical features of the following dependent claims, claims 2-8, are known from document D1 and/or document D2 (PCT Article 33(2)):
  - claim 2: see D1;
  - claim 3: see D1, page 2, line 9 to page 3, line 16; see D2, column 1, lines 61-65;

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International application No.

PCT/EP2004/004442

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
								-	
	-	claim	4:	see	D1,	figure	8;		
	-	claim	5:	see	D2,	figure	3;		
	_	claim	6:	see	D1,	figure	6;		
	-	claim	7:	see	D1,	figure	5;		
	_	claim	8:	see	D2,	column	4,	lines	12-15.
ĺ									
}									

International application No.
PCT/EP2004/004442

Box No. VII	Certain defects in the international application					
The following defects in the form or contents of the international application have been noted:						
3.	Pursuant to PCT Rule 5.1(a)(ii), the description					
	should have cited documents D1 and D2 and briefly					
	outlined the relevant prior art contained therein.					